Introduction to Robotics – Exercise 1

<u>Date of submission</u> –   Friday 12/11/21 (14:00)

<u>The assignment</u>

- Write a controller that drives forward until there is an obstacle (wall) 15 cm away, and then stop.
- The LEDs should be lit in green while driving and red while stopping

<u>Attached files</u>

- A folder ex1 – the controller – you should fill in the setup and loop functions.
- An argos file – ex1.argos – the configuration file – you should NOT change it

<u>Rules</u>

- Make sure that your code is tidy and well-commented.
- Make sure that your names and IDs are listed at the beginning of every file
- Your names and IDs and **any source** you used should be written in a README

<u>What to Hand In</u>

- You should hand a folder that is similar in structure to krembot_ws that includes all the relevant code to run your controller + README file.
- For this assignment, that means your controller and config file (within the appropriate folders) and the CMakeLists.txt file (same as in krembot_ws)
- You should not hand in executable files, or any other files that can be regenerated.
- For self-examination you can run the following commands from this folder:

  mkdir -p build && cd build
  cmake ..
  make
  cd ..
  argos3 -c config/ex1.argos

  * If this set of commands does not pass (without errors) - you will not be able to appeal

GOOD LUCK! :)